



## DIACLONE Research

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### PRODUCT ANALYSIS

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#### Human TGF- $\alpha$

<b>Catalog Number:</b>	<b>IM-01</b>
<b>Source:</b>	<i>E.coli</i> /Recombinant
<b>Description:</b>	Transforming Growth Factor- $\alpha$ (TGF- $\alpha$ ) is a polypeptide growth factor that stimulates the proliferation of a wide range of epidermal and epithelial cells. TGF- $\alpha$ has been shown to play a role in the autocrine growth of certain transformed cells. Human TGF- $\alpha$ is a 5.5 kDa protein containing 50 amino acid residues.
<b>Purity:</b>	Greater than 98% by SDS-PAGE and HPLC analyses.
<b>Endotoxin:</b>	Less than 0.1 ng/ $\mu$ g (1EU/ $\mu$ g) of TGF- $\alpha$ .
<b>Formulation:</b>	Sterile filtered and then the protein was lyophilized with no additives.
<b>Reconstitution:</b>	A quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml is recommended. This solution can be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.
<b>Stability:</b>	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human TGF- $\alpha$ should be stored in working aliquots at -20°C.
<b>Biological Activity:</b>	The ED <sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is $\leq$ 0.7 ng/ml, corresponding to a specific activity of $\geq 1.4 \times 10^6$ units/mg.
<b>Caution:</b>	Research purpose only. Not for diagnostic or therapeutic procedure.